

<110> MERISTEM THERAPEUTICS

<120> CLEAN SYNTHETIC VECTORS, PLASMIDS, TRANSGENIC PLANTS
AND PLANT PARTS CONTAINING SAID VECTORS, AND THEIR
METHODS OF PRODUCTION

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<170> PatentIn Ver. 2.1

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of replication

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replication

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kanamycin resistance

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<223> TrfA locus from RK2 coding for two proteins, P285
and P382, enabling the increase of the rate of
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<223> NPT III gene coding for neomycin transferase and
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<223> Nopaline synthetase terminator

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<223> Bar gene coding for phosphinothricine
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<223> GUS gene coding for beta glucuronidase

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<213> Artificial Sequence
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<223> Description of Artificial Sequence:Oligo
desoxynucleotide containing AvrII restriction site

<400> 23
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28

<210> 24
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Oligo
Desoxynucleotide containing StuI restriction site

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43

<210> 25
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing StuI
restriction site

<400> 25
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43

<210> 26
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing BstXI
restriction site

<400> 26
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52

<210> 27
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
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Sequence:Oligodesoxynucleotide situated upstream
of NdeI restriction site

<400> 27
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29

<210> 28

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<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
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<400> 28
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<210> 29
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
      Sequence:Oligodesoxynucleotide containing AvrII
      and AatII restriction sites

<400> 29
ttccttaggtt gacgtttct gatgggctgc ctgtatcg 38

<210> 30
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<212> DNA
<213> Artificial Sequence

<220>
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      restriction site

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<210> 31
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
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      restriction site SmaI

<400> 31
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<210> 32
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
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      restriction site

<400> 32

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<210> 33
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
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restriction site

<400> 33
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47

<210> 34
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide downstream of a
BstBI restriction site

<400> 34
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25

<210> 35
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing
restriction sites KpnI, HindIII, EcoRI and XhoI

<400> 35
cggtaccgaa gctttaatt cactcgagca gatttcgtt tcccgcc

47

<210> 36
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing
restriction sites AvrII and AgeI

<400> 36
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36

<210> 37
<211> 29
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<220>
<223> Description of Artificial

Sequence:Oligodesoxynucleotide used for synthesis
of fragment "B-beg. Pnos"

<400> 37
atatgagact ctaattggat accgagggg

29

<210> 38
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<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide containing XhoI,
EcoRI, HindIII et KpnI restriction sites

<400> 38
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49

<210> 39
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<220>
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Sequence:Oligodesoxynucleotide for synthesis of
part of npt II and BspEI site

<400> 39
ggaatcgaaa tctcgtgatg gcagg

25

<210> 40
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:Oligodesoxynucleotide used for synthesis
of part of Pnos and npt II

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24

<210> 41
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
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et FseI restriction sites of an MCS

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52

<210> 42
<211> 52

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<212> DNA
<213> Artificial Sequence

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      et FseI restriction sites of an MCS

<400> 42
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<210> 43
<211> 30
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<213> Artificial Sequence

<220>
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      restriction site

<400> 43
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<210> 44
<211> 30
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<220>
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      restriction site

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<210> 45
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
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      Sequence:Oligodesoxynucleotide containing BglII
      restriction site

<400> 45
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<210> 46
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<212> DNA
<213> Artificial Sequence

<220>
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      restriction site

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19

<210> 47
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Oligodesoxynucleotide used for synthesis of plasmid pUC19-uidA-Tnos delta EcoRI

<400> 47
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<210> 48
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Oligodesoxynucleotide containing NcoI and SmaI restriction sites

<400> 48
aatacccgaa accatggtcc gtcctgttag 29

<210> 49
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Oligodesoxynucleotide situated upstream of SnaBI restriction site

<400> 49
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<210> 50
<211> 9688
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: pMRT1334

<220>
<221> misc_feature
<222> (1)
<223> pMRT1334 was obtained by replacing the nptII expression cassette of pMRT1206 by the nptII expression cassette of pBIN19

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aaaacttggc cctcaactgac agatgagggg cggacgttga cacttgagg gcccactcac 180
ccggcgcggc gttgacagat gagggggcagg ctgcatttcg gcccggcagg tggagctggc 240
cagcctcgca aatcgccgaa aacgcctgtat tttacgcgag tttcccacag atgatgtgg 300

caagcctggg gataagt [REDACTED] ctgcggatt gacactttag gggcgccgac [REDACTED] ctgacagat 360
 gagggggcgcg atccttg [REDACTED] cttgaggggc agagtgtga cagatgagg [REDACTED] cgcacctat 420
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<210> 51
<211> 15208
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:pMRT1335

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<223> pMRT1335 results from the insertion of the
expression cassette "ep35S-gus (uidA)-polyA35S"
isolated from pMRT1206 into pBIN19

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 PCT/IB00/00370

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 pMRT1335 by the expression cassette
 "ep35S-gfp-polyA35S" isolated from pMRT1337

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